

https://www.phoenixcontact.com/us/products/2688349



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Axioline F, Digital output module, Digital outputs: 16, 24 V DC, 500 mA, connection technology: 1-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

Product description

The module is designed for use within an Axioline F station. It is used to output digital signals. The outputs are protected against short circuit and overload.

Your advantages

- 16 digital outputs
- 24 V DC, 500 mA
- · Connection of actuators in 1-conductor technology
- Minimum update time of < 100 μs
- · Device rating plate stored

Commercial data

Item number	2688349
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR02
Product key	DRI232
Catalog page	Page 76 (C-6-2019)
GTIN	4046356606530
Weight per piece (including packing)	184.5 g
Weight per piece (excluding packing)	134 g
Customs tariff number	85389091
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	35
Width	35 mm
Height	126.1 mm
Depth	54 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).

Interfaces

Axioline F local bus

Number of interfaces	2
Connection method	Bus base module
Transmission speed	100 Mbps

System properties

Module

ID code (hex)	none
Process data channel	16 bit
Input address area	0 Byte
Output address area	2 Byte
Required parameter data	1 Byte
Required configuration data	6 Byte

Output data

Digital

Output name	Digital outputs
Connection method	Push-in connection
Connection technology	1-conductor
Number of outputs	16
Protective circuit	Short-circuit protection, overload protection of the outputs; electronic
Output voltage	24 V
Limitation of the voltage induced on circuit interruption	-25.8 V15 V
Maximum output current per module	8 A (provide external protection)
Nominal output voltage	24 V DC



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Overcurrent shut-down Output current with ground connection interrupt when switched off	as of 0.7 A < 1 mA
Overcurrent shut down	max. 100 µs (when switched off, with at least 50 mA load current
Signal delay	max. 100 μs (when switched on)
Behavior with inductive overload	Output can be destroyed
Behavior with overload	Shutdown with automatic restart
Reverse voltage resistance to short pulses	limited protection up to 0.5 A for 1 s
	max. 16 per second (with nominal lamp load)
	max. 1 per second (with inductive load)
Switching frequency	max. 10000 per second (with at least 50 mA load current)
Nominal load, ohmic	max. 12 W (48 Ω , with nominal voltage)
Nominal load, lamp	max. 12 W (at nominal voltage)
Nominal load, inductive	max. 12 VA (1.2 H, 48 Ω, with nominal voltage)
Output current when switched off	max. 300 μA
Output voltage when switched off	max. 1 V
Load min.	10 kΩ
Nominal output voltage	24 V DC
Maximum output current per module	8 A (provide external protection)
Limitation of the voltage induced on circuit interruption	-25.8 V15 V
Output voltage	24 V
Protective circuit	Short-circuit protection, overload protection of the outputs; electronic
Number of outputs	16
Connection technology	1-conductor
Connection method	Push-in connection
Output name	Digital outputs
Output current with ground connection interrupt when switched off	< 1 mA
Overcurrent shut-down	as of 0.7 A
	max. 100 μs (when switched off, with at least 50 mA load current
Signal delay	max. 100 μs (when switched on)
Behavior with inductive overload	Output can be destroyed
Behavior with overload	Shutdown with automatic restart
Reverse voltage resistance to short pulses	limited protection up to 0.5 A for 1 s
	max. 16 per second (with nominal lamp load)
and in graduation	max. 1 per second (with inductive load)
Switching frequency	max. 10000 per second (with at least 50 mA load current)
Nominal load, ohmic	max. 12 W (48 Ω , with nominal voltage)
Nominal load, inductive Nominal load, lamp	max. 12 VA (1.2 H, 48 Ω, with nominal voltage) max. 12 W (at nominal voltage)
Output current when switched off	max. 300 µA
Output voltage when switched off	max. 1 V



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Product properties

Туре	block modular
Product type	I/O component
Product family	Axioline F
Mounting position	any (no temperature derating)
Scope of delivery	including bus base module and Axioline F connectors
Insulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
ectrical properties	
Maximum power dissipation for nominal condition	1.16 W
Potentials: Axioline F local bus supply (U _{Bus})	
Supply voltage	5 V DC (via bus base module)
Current draw	max. 120 mA (up to HW 02)
	max. 60 mA (from HW 03)
Power consumption	max. 600 mW (up to HW 02)
	max. 300 mW (from HW 03)
Potentials: Supply for digital output modules (U _O)	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 8 A (provide external protection)
Power consumption	max. 240 W (of which 560 mW with internal losses)
Protective circuit	Surge protection; electronic (35 V, 0.5 s)
	Reverse polarity protection; parallel diode; with external 5 A fus (only for commissioning)
Electrical isolation/isolation of the voltage ranges	
Test voltage: 5 V supply of the local bus (U _{Bus}) / 24 V supply (I/Os)	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply of the local bus (U_{Bus}) / functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min.

Connection data

Connection technology

Connection name	Axioline F connector
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual.
	Applications with UL approval: only use copper conductors.
Conductor connection	
Connection method	Push-in connection



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Conductor cross section rigid	0.2 mm ² 1.5 mm ²
Conductor cross section flexible	0.2 mm ² 1.5 mm ²
Conductor cross section AWG	24 16
Stripping length	8 mm

Axioline F connector

Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual.
	Applications with UL approval: only use copper conductors.
Conductor cross section, rigid	0.2 mm² 1.5 mm²
Conductor cross section, flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)

Standards and regulations

Mounting

Mounting type	DIN rail mounting
Mounting position	any (no temperature derating)



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27242604
	ECLASS-12.0	27242604
	ECLASS-13.0	27242604
ETIM		
	ETIM 9.0	EC001599
UNSPSC		

32151600



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com